

92-222-2772250-73 (Ext : 6214) | attiya.baqai@faculty.muett.edu.pk

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Prof. Dr. Attiya Baqai

PhD, Electronics Engineer (ELECTRO/7164)

Bungalow No 67/ B, Block B, Unit no 2, Latifabad,

Hyderabad, Sindh, Pakistan.-71000

EMPLOYMENT

1st Jan 2022- Present

PROFESSOR– Electronic Engineering Department, Mehran UET, Pakistan

- + Teaching, Research & Supervision.
- + Member patent review board at MUET
- + Member DMRC at ORIC MUET
- + Member DMRC at Electronic Engineering Department MUET
- + Member QEC SAR Evaluation Team for ME/ PhD Program
- + Committee Member for HEC Research Project Evaluation & Monitoring at MUET
- + Member Final Year Project Committee Dept of Electronic Engineering
- + Member OBE Committee at Department of Electronic Engineering, MUET
- + Member Board of Studies at Department of Electronic Engineering MUET
- + Member Board of Faculty at FEECE MUET Jamshoro.
- + Member Advisory Board at National Expansion Plan of National Incubation Centers Pakistan (NEP_NIC Jamshoro)

11 July 2019-31st December 2019

ASSOCIATE PROFESSOR– Electronic Engineering Department, Mehran UET

- + Teaching, Research & Supervision.
- + Member patent review board at MUET
- + Member DMRC at ORIC MUET
- + Assistant focal person from MUET for NGIRI- Ignite
- + Committee Member for HEC Research Project Evaluation & Monitoring at MUET
- + Convener Final Year Project Committee Dept of Electronic Engineering.

10 Oct 2009 – 10 July 2019

ASSISTANT PROFESSOR– Electronic Engineering Department, Mehran UET

- + Teaching, Research & Supervision.
- + Class Advisor

14 Sept 2004 – 09 Oct 2009

LECTURER– Electronics Department, Mehran UET, Pakistan

- + Teaching, research & Supervision
- + Course up gradation
- + Lab Incharge & Class Advisor

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12 Jul 2004 – 13 Sep 2004

LAB LECTURER – Electronics Department, Mehran UET, Pakistan

- + Teaching, research & Supervision.

2003 – 2004

VISITING FACULTY– Institute of Scientific Management (ISM) Unit #2, Latifabad

- + Teaching BS students
- + Library Incharge.

2003 – two months

VISITING FACULTY – Hyderabad Institute of Arts, Science & Technology (HIASST)

- + Teaching BS students

2002 – 2003

INTERNSHIPS – Internship programs attended during B.E.

- + Six week (June/July 2002) Internship on "MV-700/EV Radar Trainer" at Telematics Lab Department of Electronics & Telecommunication Mehran UET, Jamshoro, Pakistan.
- + Two months internship at Civil Aviation Training Institute (CATI) Hyderabad in area of aviation Equipment.

EDUCATION

2016

PhD– Electronic Engineering (Embedded System), Mehran UET, Pakistan

- + Recipient of Endowment fund scholarship under Faculty Development Program for PhD

2009

MASTER OF ENGINEERING– Telecommunication & Control, Mehran UET.

- + 87.13% (Highest marks in PGD)

2003

BACHELOR OF ENGINEERING– Electronic Engineering, Mehran UET, Pakistan.

- + Secured 88.14% (Second position).
- + Recipient of merit scholarship during under graduation

1998

INTERMEDIATE– B.I.S.E, Hyderabad, College of Excellence.

- + Secured 78.09% (2nd position in Hyderabad Board)
- + Recipient of merit scholarship from B.I.S.E
- + Recipient of Gold Medal from College of Excellence Hyderabad.

1996

MATRICULATION– B.I.S.E, Hyderabad, Hayat Girls High School.

- + Secured 84.30%.(A1 Grade)

AWARDS

2010

STAR LAUREATE – Awarded in the field of Engineering in category of women in 2010 for year 2009 by South Asia publication in 2010 at Jinnah convention center Islamabad.

2012

IDEAL ICT EXCELLENCE – Awarded Ideal ICT Excellence Award 2012 as IT student at Hotel Sheraton Karachi.

2012

ROLL OF HONOURS – Awarded as Roll of Honours Award at 40 year celebration of Dept Of Electronics MUET JAMSHORO-10th November 2012

2018

EXCELLENCE ACHEIVEMENT AWARD – Awarded Excellence Award 2018 by Mehran University Alumni Association (MUAA) at MUET Auditorium Jamshoro-6th December 2018.

2022

IEEEP EXCELLENCE AWARD - IEEEP Excellence Award, 18th March 2022 by IEEEP Local Centre Hyderabad Chapter and Local Council at Prof. Haji Mehmood Senate Hall, Mehran University of Engineering and Technology , Jamshoro

2023

NOMINEE FOR WORLD IP DAY GALLERLY- nomination accepted by World Intellectual Property Office (WIPO) for the World IP day Gallery as a “Change Maker” in the field of Engineering to represent Pakistan, featuring women from around the globe comprising more than 60 countries from various fields.

2010-2023

AWARDS & FUNDINGS FOR PROJECTS – Supervised / carried out following award winning projects:

- + **Funding 50,000 PKR:** GPS based Railway System"1st prize: 5 Gold Medals and Rs 50,000 Cash prize in PTA Project competition, March 2010.
- + **Funding 12,000 PKR:** “Electronic Hand Glove for wireless control of Appliances”, 2nd Position, Gold Medal and a cash prize of 12,000 Rs in” 25th IEEEP All Pakistan Student Seminar held on 3rd March 2010, Bahria University Karachi.
- + **Funding 3,000 PKR** Real time EEG Based Gesture Recognition System for Paralyzed Patients” 5thTH POSITION, Silver medals with 3000/Rs cash prize in 26th IEEE Student Seminar held on 3rd March 2011 at Pakistan Navy Engineering college (PNEC), NUST.
- + **Funding 30,000 PKR:** BEST ENGINEERING DESIGN AWARD with shield, certificate & a cash prize of Rs 30,000 on robot named as “MUET Boy”in 7th National Engineering Robotics Competition (NERC 2011) Rawalpindi 28th June to 2nd July 2011 at College of E&ME.
- + **Funding 3, 000, 000 PKR:** Approved in the Endowment scheme of Mehran UET to pursue PhD.
- + 1st prize in national level competition innovative idea category, TechCombat-Technology Battle 2012” 7th April, 2012 MUET Jamshoro for “Brain Robot Interaction: An Aid for Paralyzed”
- + 2nd prize in national level competition innovative idea category, TechCombat-Technology Battle 2012” 7th April, 2012 MUET Jamshoro for “Intelligent Domestic Electricity Theft detection System”.
- + **Funding US\$1212:** Secured funding of US\$ 1212 for the project titled “MITHI TELEMEDICINE NETWORK – Social ICT” under IEEE R10 Humanitarian Technology Activities – IEEE SIGHT for 2013.

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- + Best Paper Award in SCONEST 2016, IEEE 5th Student Conference on Engineering Sciences and Technology (Post Graduate Section) , At Hamdard University Main Campus, Karachi for paper "Experimental demonstration of RGB LED-based Underwater Optical Communication",
- + **Funding 200,000 PKR:** 3rd prize in Student's Startup Business Competition SSBC 2017, with project "Optimal Tactile Display"- secured seed money of 200000/ Rs (2 Lac) from HEC & PEP.
- + **Funding 100,000 PKR:** Secured 1 Lac/Rs funding for FYP project "Blood Sample Analysis using image processing" under Research Incubation in Public Universities (RINU) - Jan 2018.
- + **Funding 100,000 PKR:** Secured 1 Lac/Rs funding for FYP project "Assessment Tool Development for Visually Impaired" under Research Incubation in Public Universities (RINU) - Jan 2018.
- + **Funding 600,000 PKR:** Secured 6 Lac /Rs funding for startup company "OvueTech" under Research Incubation in Public Universities (RINU) - Feb 2018.
- + **Funding 200,000 PKR:** 2nd prize in Student's Startup Business Competition SSBC 2019, with project "Elementary Education for Visually Impaired"- secured seed money of 200000/ Rs (2 Lac) from HEC & PEP
- + **Funding 70,128 PKR:** Funded project of Rs.70,128/ Rs by NGIRI- IGNITE 2019 for FY Project " Design of Digital Range of Motion (ROM) Measurement System". Sept 2019
- + **Funding 80,000 PKR:** Funded project of Rs.80,000/ Rs by NGIRI- IGNITE 2019 for FY Project " Harnessing Power of Quanta: Analysis, development and implementation of quantum algorithms and devices". Sept 2019. (Also selected for Ignite National Championship 2020)
- + **Funding 200,000 PKR:** Secured funding of Rs 2 Lac in Shark Session, DUHS-DICE Health Innovation Exhibition 2019 by Novartis (Pharmaceutical Company)- Expo Center Karachi- Oct 2019.
- + **Funding US \$6,000/-:** Secured funding from HEC Patent support Program under faculty development as patent filing fee for Patent. Publication No: US-2019-0347961, Published by US Patent Office (USPTO) on 14 November 2019. Title: Optimal Tactile Display". Inventors: Engr. Abdullah Memon, **Dr. Attiya Baqai**, Engr. Mudassir Kazmi
- + **Funding 60,000 PKR:** 2nd Prize with prize money of 60,000/ Rs in Project Competition in DICE-IET 2020 COMSATS Lahore Campus, for "ASH Braille", held on 6-7th March 2020
- + **Funding 600,000 PKR:** Secured funding of 6 Lacs from COMSATS Lahore & Silicon Valley Investors USA for startup ASH Braille in DICE-IET 2020 COMSATS Lahore Campus, held on 6-7th March 2020
- + She Loves Tech Pakistan for "AgriTech" team led by Dr. Attiya Baqai- 19th September 2020 winner from Sukkur city round, shortlisted for final round
- + Agri-Surge Innovation Challenge by Ignite team led by Dr. Attiya Baqai, 15th August 2020 shortlisted for next round
- + **Funding 72,783 PKR** by NGIRI- IGNITE 2021 for FY Project " Design and progression analysis of neuro rehabilitation system using Machine learning". June 2021

- + **Funding 75,000 PKR:** Won 2nd Prize with cash award of 75000/ Rs in Lab2Market event project exhibition as part of National Artificial Intelligence Forum (NAIF) held on 2nd September 2021 for the project "Design and progression analysis of neuro rehabilitation system using Machine Learning" at Sino Pak Center of Artificial Intelligence (SPCAI), Pak-Austria Fachhochschule Mang Haripur, KPK.
- + **Funding 30,000 PKR:** Secured funding of 30,000/Rs in Dice Shark and 10,000/Rs in special prize for "Design and implementation of Digital Spirometer for monitoring lungs health status" in 6th All Pakistan DUHS-DICE Health Innovation exhibition held on 30th December 2021 at Dow University Ojha Campus.

2017-2023

STARTUPS

Have played role of **advisor/ mentor** in following notable startups.

1. **OVUE TECH**

- Worked as Member Board of Advisors for "**Ovue Tech**"
- + OVue Tech- A startup of Innovation & Entrepreneurship Center Mehran University of Engineering & Technology (IEC-MUET)
CEO: Abdullah Memon, Dr. Attiya Baqai (Advisor-honorary)
Worked as FYP supervisor, this project is now turned into Startup
- Achievements of Ovue Tech
- + **Funding 200,000 PKR:** 3rd prize in Student's Startup Business Competition SSBC 2017, with project "Optimal Tactile Display"- secured seed money of 200000/ Rs (2 Lac) from HEC & PEP
- + **Funding 600,000 PKR:** Secured 600,000/Rs funding for startup company "OvueTech" under Research Incubation in Public Universities (RINU) – A Sindh Government project-Feb 2018
- + "Ovue Tech" is one of the 15 startups from all over Pakistan selected from 700 applicants, and incubated in "National Incubation Center" Islamabad. (Remote Incubation)- April 2018.
- + Ovue Tech Shortlisted in Preston Entrepreneurial Challenge PEC18 Grand Finale held in Preston University Islamabad on 11th and 12th of May, 2018.
- + Secured 3rd Prize in 1stFlight by TIE Islamabad at Innovation Hub Jamshoro in July 18/ August 18.
- + **Funding 200,000 PKR:** OVUE Tech won 1st place, best startup amongst 200 applicants with prize money of Rs 2 Lacs at the Erupt Superior Business Competition organized by Innovation District 92 Lahore. August 2018.
- + Only company selected from Pakistan to represent Pakistan in Shanghai Cooperative Organization (SCO) member state youth Innovation and investment platform. 22-24 Oct, 2018.

2. **DA Physio (Digital Assistant Physio)**

- + **Funding 200,000 PKR:** Secured funding of Rs 2 Lac in Shark Session, DUHS-DICE Health Innovation Exhibition 2019 by Novartis (Pharmaceutical Company)- Expo Center Karachi- Oct 2019, for Project "**Design of Digital**

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Range of Motion (ROM) Measurement System" in collaboration with Dow University of Health Sciences Karachi- Feb 2020

3. ASH BRAILLE

- + **Funding 200,000 PKR:** 2nd prize in Student's Startup Business Competition SSBC 2019, with project "Elementary Education for Visually Impaired"- secured seed money of 200000/ Rs (2 Lac) from HEC & PEP-Feb 2019. Company registered as **ASH Braille** in MUET-IEC.
- + **Funding 600,000 PKR** Secured funding of 6 Lacs from COMSATS Lahore & Silicon Valley Investors USA for startup **ASH Braille** in DICE-IET 2020 COMSATS Lahore Campus, held on 6-7th March 2020

4. Mehran Stairlift

- + **Funding 9800\$** Approved funding of 9800 US Dollars for startup Mehran Stairlifts from EPICS in IEEE January 2023 for making 10 units as community service and work with NGO/NPO.
- + National-level FYDPs financial awards 2022 winner 2022 by Pakistan Engineering Council
- + National Idea Bank 2022 Provincial level winner
- + Shortlisted for PM Youth Innovation award.
- + Incubated at NEP NIC Jamshoro in 4th Cohort Launchpad

SERVICE ACTIVITY

PROFESSIONAL DEVELOPMENT

SEMINAR/ WORKSHOPS-

- + One day workshop on "Workshop on Matlab" held on 19th December, 2006 at MUET, Jamshoro.
- + One day International Workshop on "Wireless Sensor Networks" held on 13th April 2008 under auspices of IMTIC'08.(MUET).
- + 3-Days Certificate Training course on "Field Programmable Gate Array (FPGA)", 13-15 March 2009, MUET Jamshoro.
- + One day Workshop on "Career Advancement A Multifold Approach", 28th March 2009. MUET Jamshoro.
- + Lecture on "Problem Based Learning" by Dr M. Akbar Hussain ALLBORG university Department of Electronic Systems Denmark. 26th March 2010 MUET Auditorium.
- + Two Full Day Certificate Training Course on EDA Tools especially on FPGA Advantage, 3rd & 4th April 2010. at cyber interactive lab Dept of Electronics MUET Jamshoro.
- + One day national Workshop on Intellectual property Rights in Pakistan Challenges and Opportunities April 26, 2012 (World IP Day) at MD Hall MUET Jamshoro.

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- + Two Days hands on training on "Silicon labs Microcontrollers using C Language".1st-2nd September 2012, 9:00 am to 4:00 pm. (Saturday & Sunday)
- + Attended IMTIC08, IMTIC12, IMTIC13, IMTIC15, IMTIC18 & IMTIC21.
- + One Day Seminar / Workshop / Awareness Program on Registration / Grant of Patents, Trademarks and Copyrights to the individuals.
Intellectual Property Rights at Senate Hall, MUET, Jamshoro, Pakistan on 7th December 2015 by Patent Office, IPO-Pakistan.
- + Innovation & Entrepreneurship Session by The NEST i/o Team from PASHA at MUET Auditorium-on 7th March 2016 organized by IES and ICS MUET.
- + Video conference regarding Online NRPU and TDF on Tuesday, 24th October 2017, at 11:00 a.m. at video conference hall I.T building
- + Projection of TDF on 27th October, 2017 at 10:30 a.m. at ORIC Auditorium.
- + One day awareness session on Intellectual Property (IP) awareness program of Pakistan-1st Nov 2017 at ORIC Auditorium.
- + "Artificial Intelligence" (AI) seminar at World Telecommunication and Information Society Day, May 17, 2018. Audio Video Conference room IIT Building MUET.
- + Global Entrepreneurship Week 12-18 Nov 18, celebrated at MUET Jamsoro.
- + Attended seminar on Prospect scholarship opportunities for research and Collaboration in Europe" by Dr. Yar Muhammad Mughal- University of Tartu, Estonia (24-07-2019)
- + Attended IEEE Fair Oct 1-3rd 2019, Karachi Expo Centre.
- + Delivered Talk on "Activating innovation and commercialisation in MUET", in Academia Conference at IEEE Fair Oct 1-3rd 2019, Karachi Expo Centre.
- + Participated in 5th All Pakistan DUHS-DICE Health Innovation Exhibition, 16-17 Oct 2019.
- + Organised and attended an Interactive Session on "Importance of Patent in the National Economy" at AV Conference Hall, IIT Building, MUET, talk delivered by Dr. Mohsin Siraj, Philips Holland. 8th January 2020.
- + Delivered seminar as resource person on "Prospect funding opportunities for FYPs" at Audio Video Conference Hall, IIT Building MUET on 27th Jan 2020.
- + Attended DICE-Information & Enabling Technologies (IET) Innovation · COMSATS University Islamabad, Lahore Campus · March 6-7th 2020
- + Attended webinar on "Automatically Build tinyML Solutions on Embedded Devices" certificate presented by Tina Shyuan, Senior Product Marketing Manager, Qeexo & Mary Bennion, Arm AI Ecosystem Manager, Arm- 20th May 2020. (certified)
- + Attended webinar on "What are the Benefits of In-Vehicle Sensor Fusion for Autonomous Vehicles?" certificate presented by Modar Alaoui, Eyeris CEO & Mary Bennion, Arm AI Ecosystem Manager, 29th July 2020.
- + Attended Digital 24th European Conference on Artificial Intelligence, 29th August-8th September, organized by the University of Santiago de Compostela Santiago Spain.

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- + Attended and organized "Android Development – An Introduction"- 0.5 CPD webinar by Engr. Khuhed Memon on 15-08-2020. MUET
- + Attended and organized webinar on "Latex (Thesis Writing Tool)" by Prof. Dr. Wajiha Shah for Final Year students of ES on 05-09-2020
- + Organised Final Year Project exhibition for F16ES at Department of Electronics Engineering on 2nd November 2020.
- + Attended Two day international Training- Workshop on scientific paper and paper writing organized by Islamic World Educational, Scientific and Cultural Organization ICESCO Kingdom of Morocco Rabat 14-15 December 2020.
- + Attended and organized 0.5 CPD workshop on "Natural Language Processing- An introduction" by Engr. Khuhed Memon held on 26th December, 2020 at Mehran University of Engineering & Technology Jamshoro.
- + Conducted 0.5 CPD webinar as resource person on "Prospect Funding Opportunities for FYPs" held on 7th January 2021 through MS Teams organised by Department of Electronic Engineering in collaboration of ORIC & MUET.
- + Coordinated and organised online Declamation contest on 27th January, 2021 for department of Electronic Engineering MUET Jamshoro at AV conference room IIT building.
- + Attended 6th IAB (Industrial Advisor Board) Meeting of Electronic Engineering department and Interactive Session between Industrial Experts and final year students on 18th Feb. 2021.
- + Attended and organized ""Academic Writing and Plagiarism Policy Awareness" on 25th February 2021,"- 0.5 CPD webinar by Dr. Farida Memon through MS Teams organised by Department of Electronic Engineering in collaboration of ORIC & MUET.
- + Attended seminar/ training on "SAR Assessment" on March 2021, 10:00 am at Prof. Dr. Haji Mahmood Memon Senate Hall MUET Jamshoro
- + Attended and organised as Final Year Project Committee Convener "Ingredients and Recipe of Project Thesis" webinar through MS Teams by Dr. Shoaib Rehman Soomro for 17ES on 13th April 2021.
- + Attended webinar for "How Machine Learning is Enabling New Smart Camera Applications» certificate presented by Dylan Zika, Product Manager, Arm – 29th April 2021
- + Attended "MATLAB EXPO 2021", held on May 4–5. covering 70+ technical talks from MathWorks engineers and leading industry experts, across 11 application areas and 2 MathWorks Automotive Conference tracks.
- + Completed certified "Machine Learning Onramp» course by Mathworks Training Services on 14th May 2021
- + Attended AI Tech Talk: "Optimized C Code Generation for Ultra-efficient tinyML Applications" on 25th May 2021 organised by Arm Software Developers AI Virtual Tech Talks series | Talk delivered by Johan Malm, AI Engineer in Imagimob Product Team (Imagimob AI is Specialized in Edge AI (TinyML) company Based in Stockholm, Sweden

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- + Attended tinyML Talks webcast: « What, Why and How of TinyML » , speakers : Aruna Kolluru, Chief Technologist for AI, Dell Technologies and Subhranshu Sekhar, SAP & Oracle Lead Architect, Dell Technologies ANZ on May 26, 2021.
- + Attended PEC Online 0.5 CPD Webinar « Young Engineers as Future Consultant » held on May 05, 2021.
- + Attended PEC Online 0.5 CPD Webinar " Massive Connectivity in 5G+ Networks for Smart Cities » held on June 01, 2021.
- + Attended PEC Online 0.5 CPD Webinar on " Blockchain for Integrity of Supply Chain" held on June 10, 2021
- + Attended PEC Online 1 CPD Webinar on « Indegenious entrepreneurship characteristics, cases and stories » on June 12, 2021
- + Attended PEC Online 0.5 CPD Webinar on "How to Start & Grow a Business - An introduction to PNIP Investment Readiness Program" on June 29 2021
- + Delivered a keynote talk on " Robotics & Automation in Health care" in Annual Cross Lab Workshop/ Conference by NCRA-HHRCMS LAB MUET on CONDITION MONITORING SYSTEMS,12-16th July 2021at USPCAS-W Auditorium, Mehran UET Jamshoro.
- + Attended AI Tech Talk: "Easy TinyML with Arduino: taking advantage of machine learning right where things are happening" on 20th July 2021 organized by Arm Software Developers AI Virtual Tech Talks series| Talk delivered by Massimo Banzi, Co-founder at Arduino.
- + Served as Judge in Interdepartmental Engineering Exhibition IEX-2021 in the category of Project Exhibition & Robotic Contest on 8th December 2021 at the Department of Electronic Engineering MUET Jamshoro in collaboration of IEEE IMS Society.
- + Was invited as Guest of Honor at Hands-on Workshop on Line Follower robot "AN INTRODUCTION TO ROBOTICS AND ITS PROMISING FUTURE 2.0" held on 7th Feb 2022 at Science and Technology Park, MUET Jamshoro organized by Tele commination Engineering Department in collaboration with IEEE IES Karachi Chapter, IEEE IMS MUET, IEEE RAS MUET &Techrotics Technologies Lab.
- + Organised "Microcontroller Based Project Exhibition" on 22nd April 2022 for 19ES Batch as part of their 5th-semester activity for the subject "Introduction to Embedded Systems as a subject teacher.
- + Conducted a "Product Development" session as resource person at National Expansion Plan NIC Jamshoro on 30th June 2022 for 2nd Cohort incubated startups.
- + Organised and coordinated a visit of Students of Final year and 3rd year from the Department of Electronic Engineering MUET Jamshoro for National Expansion Plan, National Incubation Center NEP-NIC Jamshoro on Friday, 5th August 2022.
- + Attended 8th IAB (Industrial Advisor Board) Meeting of Electronic Engineering department and Interactive Session between Industrial Experts and final year students on 22nd August 2022.

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- + Served as a judge in the final round for the 3rd cohort of NEP NIC Launchpad Jamshoro, on 24th August 2022 in collaboration with Punjab Information Technology Board (PITB) Incubation Wing.
- + Served as a judge at NIC Hyderabad for the world's largest startup competition for women and technology "She Loves Tech" for the Hyderabad Region round on 27th September 2022.
- + Organised 18ES Final Year Project Competition at the Department of Electronic Engineering MUET Jamshoro on 25-26th October 2022.
- + Organised and conducted "One hour interaction on FYPs" seminar as resource person for 19ES Batch at the Department of Electronic Engineering MUET Jamshoro on 14th November 2022.
- + Participated as a panelist in a Panel discussion on "WomenInTech: Challenges & Opportunities" at Science & Technology Park, MUET Jamshoro on 17th November 2022
- + Served as Poster Session Chair at the International Conference on Emerging Technologies in Electronics, Computing, and Communication (ICETECC'22) organized by the Department of Electronic Engineering MUET Jamshoro on 7-9th December 2022.
- + Organised and lead a visit for the faculty of Department of Electronic Engineering MUET to Civil Aviation Training Institute (CATI) Hyderabad for a 2-day CPD workshop on the topic "Present And Future Challenges With Regard To Innovation & Technological Advancements In Aviation" on 21-22nd December 2022.
- + Conducted a workshop/ seminar on "Edge Computing" as a resource person in TechFest Chapter 3 at AV room, IIT Building, MUET Jamshoro on 19th Jan 2023 organised by Evolve startup in collaboration with NEP NIC Jamshoro, ACM, IEEE IMS Society and Google DSC - MUET, Jamshoro.
- + Invited as guest of honor on 15th February 2023 and delivered the graduation speech at NEP NIC Jamshoro, Science and Technology Park by Circle Women Community for the digital literacy program supported by British Asian Trust and Citi Foundation.
- + Attended International Women's Day 2023 and delivered talk as a panelist in panel discussion " Dare to be resilient" at NIC Hyderabad on 8th March 2023 organized by Women Techmakers Hyderabad Pakistan (a program owned by Google) in collaboration with Google DSC - MUET, Jamshoro, CIRCLE Women, Evolve.
- + Served as final round judge for 4th cohort NEP NIC Launchpad Jamshoro, 14th March 2023 in collaboration with PITB Incubation Wing.
- + Served as a judge on 21st March 2023 in Entrepreneurship Startup Competition, of ZindagiPrize MUET JAMSHORO Campus round at Office of Research and Innovation & Commercialization ORIC-MUET Jamshoro.
- + Served as the Technical Session Chair on Day-1 and Tutorial Chair on Day-2 for the "Sound of Wellness: A centralized Dashboard and Music Prototype therapy for enhanced Healthcare Management" session conducted by Dr. Shama Siddiqui and Dr. Anwar Ahmed Khan during 7th International Multitopic ICT Conference (IMTIC23), held on 10-12th May 2023 jointly

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organized by Mehran University of Engineering and Technology and Sir Syed University.

- + Conducted an online seminar on "Embedded Artificial Intelligence and Edge Computing" workshop as a resource person on 19th June 2023 organized by Zindagi Prize in collaboration with IEEE Karachi.
- + Attended tinyML Talks webcast: Unleashing the Power of the New XIAO ESP32S3 Sense: Tackling Anomaly Detection, Image Classification, and Keyword Spotting with TinyML by Marcelo Rovai, Co-Chair TinyML4D group on 13th June 2023.
- + Has successfully completed "Introduction to Embedded Machine Learning" an online non-credit course authorized by Edge Impulse and offered through Coursera on 10th July. <https://coursera.org/verify/GH9LLLFR3U68>

MEMBERSHIP & TASKS

+Life Time Member as Professional Engineer, Pakistan Engineering Council (PEC) Pakistan Engineering Council card valid upto 31st Dec 2023, Registration No: Electro/7164

- + Member PhD Country Directory (PCD), PCDNO:21726
- + Valued IEEE member for 5 years Professional
- + Valued IEEE member for 2 years Professional Entrepreneurship Exchange Community
- + Valued IEEE member for 3 years Professional IEEE Engineering in Medicine and Biology Society
- + Valued IEEE member for 2 years Professional Brain Community,
- + Valued IEEE member for 2 years Professional Digital Reality Community,
- + Member MUET's internal Patent Review Committee/ Board Mehran UET, Jamshoro
- + Member HEC Research Project Evaluation & Monitoring Committee at MUET.
- + FEECE eNewsletter Editing/ Reviewing Committee MUET Jamshoro.
- + Harassment Monitoring Officer from June 2016 to July 2018 for Protection against harassment of women at workplace
- + Convener, Final Year Project Committee at Department of Electronic Engineering MUET
- + Member Departmental Management Review Committee (DMRC)of ORIC, MUET
- + Member OBE-Program Committee at Department of Electronics
- + Alternate focal person from MUET for NGIRI- Ignite (2019,2020,2021)
- + Member UI Green Metric MUET Working Group
- + Member BoS, Dept of ES, MUET Jamshoro
- + Member BoS, Dept of ES, SU Jamshoro
- + Member Board of Faculties for FEECE MUET Jamshoro.
- + Member postgraduate SAR Assessment Team for QEC, MUET

PROFESSIONAL MEMBERSHIPS

PEER REVIEWED JOURNAL PAPERS

- + Palijo T. · Baqai A. · Mukhtiar Ali Unar, "Fuzzy Logic based Data Retrieval system. October 2005." MUET Research J. of Eng & Tech. (MURJ), Vol. 29, No. 4, pp. 305-312, 2005.
- + A Baqai, FA Umrani, BS Chowdhry, "Design, Development and Implementation of the IR Signalling Techniques for Monitoring Ambient and Body Temperature in WBANs.", Mehran University Research Journal of Engineering & Technology 33 (3), 365-371, 2014.
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- + Lab book on Neural Networks & Fuzzy Logic with MATLAB, Co-authored Prof. Dr. M.A Unar, 2009, ISBN: 978-969-8680-25-1.
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PATENTS

- **Granted** by **IPO Pakistan** on 26th July- 2018
- + Patent Application No : 116/2016, Patent no : 142695 "A SYSTEM OF SECURE TRANSMISSION OF PHYSIOLOGICAL DATA FOR WIRELESS BODY AREA NETWORKS " by Inventors Dr. Attiya Baqai, Dr. Fahim A. Umrani & Dr. Bhawani S. Chowdhry .

- Complete Specification Application filed in IPO Pakistan in March 2019.
- + Patent Application No: 124/2018, Information display on the surface of mirror with enhanced interactivity by Inventors: Engr. Mudassir Kazmi, Dr. Attiya Baqai, Engr. Abdullah Memon, Dr. Fahim Umrani
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REVIEWER

- + Referee for Mehran University Research Journal.
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- + Reviewer for Journal Wireless Personal Communications-Springer (IF=1.06)
- + Mathematical Problems in Engineering by Hindawi (IF=1.009)
- + Reviewer for Journal of Developmental Neurorehabilitation, Taylor & Francis Group (IF=1.707)
- + Reviewer for IEEE Internet of Things Journal (IF=10.238)

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- + Reviewer for Research proposal under the Center of Excellence Grants competition (COE) by HEC in collaboration with World Bank Group.
- + International Multi-Topic ICT Conference (IMTIC08, IMTIC12, IMTIC13, IMTIC15 & IMTIC18),
- + 1st International Conference on Wireless Sensor Networks for Developing Countries (WSN4DC'13)- MUET Jamshoro
- + Global Conference on Wireless and Optical Communications- Malaga Spain (GCWOC'16, GCWOC'17, GCWOC'18, GCWOC'19, GCWOC20)

SKILLS

COMPUTER SKILLS

- + Matlab , LabView, Pspice
- + OrCAD, Circuit Maker, Electronic WorkBench , MultiSim, MELSEC MEDOC, KEIL software, PINNACLE, LCD simulator, AutoCAD, Proteus, Config Wizard, Atmel Studio, Arduino, Processing, IBM Q.
- + Computer Languages: Basic, Fortran, C, C++, Visual Basic, Assembly Language, Embedded Assembly & C language, Python, ML for Embedded Systems
- + Operating Systems : Windows 10
- + Microcontroller & SBC : AVR, Arduino, Raspberry PI
- + Practical experience with: Microsoft Word, Microsoft Excel, PowerPoint, Microsoft Visio, and Microsoft Publisher, Microsoft Outlook Express.

LINGUISTIC SKILLS

- + English, Sindhi, Urdu

RESEARCH AREAS

- + Wireless Body Area Networks, Wireless Communications, Optical Communication, Artificial Neural Networks, Fuzzy Logic Control, Assisted Living Technology, Embedded System Design, Virtual Reality, Machine learning, Deep Learning and Quantum Computing.

SUPERVISION

- + Supervising projects in the field of Embedded systems and Neural Networks & Fuzzy logic-till now have supervised 50+ UG projects/theses 6 ME projects, co-supervising three PhD projects and advisor in 4 startups.

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